an Essay

ov de Medical Topography & Autumnal Tever of Mushington North bardina by John W. Felts

On the Medical Topography and Autumnal Fever of Washington N.C.

To the eye of the modical observer, the leggesthy of the bowe section of about beardine presents deject of cities thing, speculation, In me parts of our country, come so more planely trees the operation of these impatpable agents, that have been asknowledged by the consisted suffrage of physicians as the origin of automoral diseases. To entire in what way thing that might be compachended in a topographical stritch, would extend this efsay beyond proper limits. I shall briefly altered to the more foremental local pseulinities, one espanily omething, much that might be considered as indimately connected with the subject.

Washington is situate on the stock side of Samtice river, as bent thirty mild from its entrance into the Sound, from which letter place it is the second, from which

Latitude 35"30"

Jongitude 1710.

The rine at the terre is about 1/4 of a mile in with. The banky on the North side are dwarfed and ranky overflower, while those,

forming the opposite shore, we lear and liable to frequent inundations. The land estending back for a mile or two is surempy and have ely timboard with Game Laurel, byfored to, with a very thick under growth of reads which completely esched the nays of the sun at all sea sond bottomstely for the whalstand of lovelington, this immenselycessin care versus by reclaimed. What the attimate effect of this ones. some would be upon their health it is emposphile to say; it surempted diate one would doubtled be highly foreguidicial. This swamp cont times for one will doubtled be highly foreguidicial. This swamp cont times for one will down the river, and gradually receding from the terminate in theoretically bay.

The opinion that this Jay and swamp constituted, it out in the bed of the river has putty generally obtained among the older in habitants of the country, and then one many virusmatances that yo strongly to correborate such a supposition. It is not emulual for fur time to discour out the mangin of the high lands forming this southern formation, and when a son of equantly found on the banks of our award, and which could not popular, have been deposited by any view attens of the present day, they were then fortably thrown up when the situations now securified by thrown up when



shows to the river. A gentleman, who sisided near the commencement of this high land, discovered some time since, at the distance of twen ty fin feet below the surface, a stratum of vegetable matter beet fartially decomposed, which closely resembled the present cover ing of the marshes, of its identity with which, he was firmly fur suaded. another highly intelligent gentleman, in the same vicenty, discovered, at the distance of therty feet below the surface, the trunk of a true bying, as it had probably been prefed by the immense weight upon it, on an inclined plane; and near it, the stump to which originally it had been attached. These circumstan , ces taken in corenection with the general aspect of the country, go strongly to justify the conclusion, that the spots at which these phenomena were observed, must have been, at a remote period, faludal, and promed marshy banks or margins to the river, of which Chocowinity bay and swamp constituted the bed. How this change was effected - whether by some convulsives three of nature or by the slower process of gradually deserting its former bed, it is impossible even to conjecture. On this point, tradition furnishes nothing to aid us. Enough, however, is

however to appear we that some great and important change has been wrought in the aspect of the country, and their exclusive, the situations mentioned will present a succeptual application of the property. Bufford news to the explanation of their phenomena.

It is appear or west end of the town, I lund is high and sandy, for perhaps a writer when transers create a bold and sapid at reconvivity function with the said mother creek of considerable wip makes in, and emptic steely just below the terroriothe water in the pairs is generally fresh except when strong east-tiefy justed by present clearly sinds prevail clearables of sufficie in filling writer for use at sea, invariably prefer it to the pump or well water. It is said to thereformal larger and better.

The land in the vicinity, and the semant may be at tinded to all the section of evorth beareline, is flat and generally sendy. I wante and moveful, particularly in the neigh borhood of water courses an immercial and often extension. As you need however from the river, these become feece and the land move alwated but left feetile. The inhabitant, have obtain infinitely better water and enjoy better-health. In the former

situations born and botton are cultivated to considerable advantage while the inhabitants of the latter are mainly dependent upon the manefaction of mount stores.

The minimalogy of this and indeed of every part of our state, is but imperfiely known In fact, untill the last few years, on thing, had been done towards its investigation. The sigislature have lately seewed the services of Begifsor ellitchell, who has on gaged in this important and interesting undertaking with an wordow that farmises the most distinguished success. From his industry and acknowledged abilities much may be expected. In the vicinity of Washington there are several springs laid to be fels feld of active chalybrate properties, and to have been useful in convalescence from our autumnal furer, and in some funds complements.

Our summers are intermely would and inregular; sematimed pleasant throughout, at other times marked by interds knot the best weather generally commences about the first of June and terminates towards the above of best occurs about the solities, but that of diagnost and elepticular is fan more.

appendisin and disagreeable. The theorements, during this feeled hanges from eighty to minity of Tahrahiet. The same variety is observed with regular and refreshing showers, constinus by tromundous quet amounting almost to tronders, at other times, the distillation is explored and incepant, emundating the country in sway direction and destroying, the overstyring to severy direction and destroying, the overstyring to severy direction and destroying, the overstyring to severy direction and destroying, the overstyring the country in some direction and destroying, the overstyring the authority of the direction of the search freeents as surface, as facehed and arid as the plains of Mindotton.

That the diseases of this section of country and the remark furhaps may be setended to the schools continent an gradually acheeving most complex and diversified, it generally achemoring most complex and diversified, it generally achemoring with accuracy. It school them to determine with accuracy. It school to soul, an ability may be attributed, it is perhaps impolished to soul, libertor the gradual changes that are taking place in our claim ate, as well as upon the face of the country have produced this important revolution, or whether it may be traced to changes that have been wrought in the moved and plysical courti-



tation of its inhabitants, remain questions of securities in vestigations.

book particular sensor brings with it, its own pecheliar and appropriate epidemic, according as the different organs or liferes may be morbidly facilifored. It she writer and opening the lungs and their appropriates are mostly liable to suffer, in the semmes and full, the museum tipeur of the stremach and bounds and the hope the supparatus, with that general morbid condition of the system denominated Jews. To the discover of this latter class of shall confirm my remarks.

there than a centing has elapted since autumnal diseases were represent by domeste to mistomatic sufficience and this has been obtained by confirmed by succeeding, observers. He extremely subtile motion of the impalpable agents with perhaps from prevent their subjection to alimited or mechanical esquerement. They are known become chiefly to abound in less and marrishy traits of country, and to be produced by the combined influence of heat and meritum superi will previously constituted. In a service of beat and meritum superi will previously constituted. In a service of beat and meritum superior on this previously constituted. In a service



ted much that is valuable on this subject to them I begleave to refer.

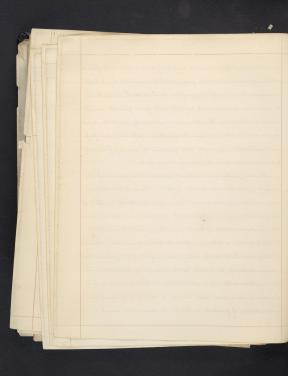
Inspendant of their general sources of diseases, this are into ashingten, and we preserve in all places when police regulations are law and engineents others of an internal nature; such as accumulations of engetable matter, frequently the offel of the hitchen, and collections whom the whomes thrown from people's. He structs too are marrow and ranky alean. These or cumstances will not appear town above unworthy of artice, when it is needlested that from exceedingly small points disease is and eated. These causes are aided in the operation by other more immediately exciting—as excepts of every kind, expressed to the heat of midday or to the cold damp deeper of might in

In its character and opposition est our town is as characterist as the alimate and season under which it exists. It a ground proposition however, it may be stated, that ten distinct forms of it one frequently to be most with of their the first seawes chaifly in the summer and early part of the fall, and is generally more likely, to attack the danguines and plutherie. It comes on frequently without the danguines and plutherie. It comes on frequently without the least properties, having a cold stage more or



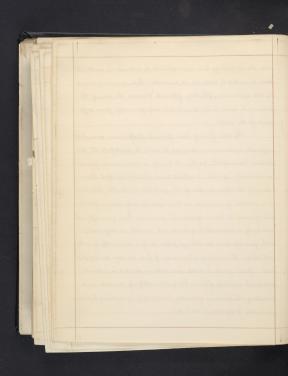
ly distinctly marked, succeeded by high febrile action, with pain in the head and back - pulse full and voluminated or hard to the order-ship hot and dryf-regionalism humined mit a tendency. It deliverems - eyes seed and injected with great general concasioners and sestlipsufs. The strenach is externely irritable rejecting and restlipsufs. The strenach is externely irritable rejecting who were to taken in and the epigatonian is tender apon frequency. Exacelations commonly take place in the evening followed by a very indication of and imperfect remissions.

The most enable examination of the saw will point out the needing of frompt and copious depletion. General bloodletting with he indispensable in most easily, and should be repeated if the most distribution, and from the epignetic and from the ideal storactions of blood from the epignetic and from the ideal storactions of blood from the epignetic and from the dead should a determination to that organ exist, wite eperatibly contribute to the schift and comfort of the patient. End is one absolutely parhibited by the fresence of irrelation or in farmation in the stormach. And incomment a far-time with the schift and invested it recommend a farmation of freedom than menty it obvious or for event and assumulation of freedom trains in the almination canal?

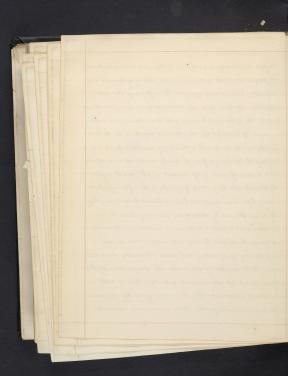


and this is perhaps lest accomplished by Caloral in moderate does succeeded by Caster oil or enemate. These measures a ideal by cold applications of blisters followed towards the close of the disease by some mild dispheritic will generally prove sufficient for the curs.

The other forms of Sour presents itself under somewhat different appearances and may be sind to constitute the term Bilines Four of the South. It see, age a temperament furnishes an immenty against its attack, and the most comput observances of all these further for the foretition of health, that have been stailed by sucception existers upon the subject, with be winefficient to secure against its invasion. It is generally ask with gauning and stratching, followed by a distance for marked east graining and stratching, followed by a distance for marked east a fully guilly, irribated and paths contracted in volume; not much a cuting of fain but great restracted in volume; not much acuting of fain but great restracted in volume; not much acuting of fain but great restricted in volume; and armiting. The built as generally constituted, sometimes howevery in a stitle of description is scripture.



The eyes on meedly and deprived of their accustomed brillian ey, the tongue red in the centre, or covered with a yellowish cost the respiration hurried and oppressed. In a few days this state of comparation opportation gives way to one of more unequivireal ex extiment. The pulse now becomes full and voluminous with some degree of tensery - the skin hot and dry; pain in the head frequently an attendant, with a throbbing sensation peculiarly distribing. The discharges from the bowels are small and offen sin. a tendermely more or less distinct is fell over the region of the stomach extending, itself frequently to the rights hypochon drium. After these symptoms have continued for some days they abote or are followed by others of an alarming character as wild delirium - subsultus tendinum - incontinence of wrine and forces. The purface becomes cold and is covered with a dewey, clammy perspiration and death ultimatity closes the scene. Cases sometimes occur when the temperature of the surface is not at all increased and where there is little or no arterial excitement. These have been generally supposed to be more unmanageable. Their anomalous character

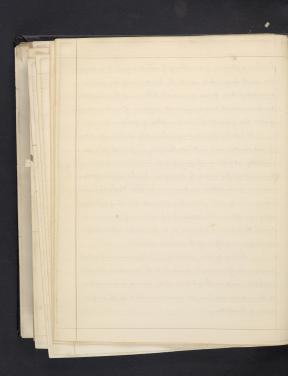


has been explained by armotrony by attributing it to a longer tion in the large orbids about the heart; and this would seem satisfactory for as soon as the balance of the circulation has been protocold and unequivocal sendences of societiment mass if ited they girled to the usual methos of to atment.

To light has been shid expoundly matine of these affections by post mortion examinations. But judging from the phenomena constantly exhibited in the propely of the diences and acasene up from analogy) from white by disection, elevabor prosecutaly account have me hartestone in pronouncing their Pathology. So carted promarily, in the stomach and small enterture, and condition in influenceasing in suflumenation, emobiles of by intense, of its macross living in suflumenation, emobiles as as to enable altimately course of the macross living the dience is extended as as to enable altimately course organs and tipes of the animal machine.

Ended by this pathological view, our earliest at people will, of course, be directed to the correction of this condition and in the collection of the means best adapted to the add our attention is earliest corrected by the impor-

lance of bloodletting -



In the employment of this semedy we must be guided by the general aspect of the disease and the ago and vigour of the patient. The propriety of its reputition, will alow be determined by its effect whow the disease. Cooperating with this, no will derive most decided benefit from the local abstraction of blood, by cups or lecches from the epigastrie and hypochondrise regions. Luches are generally preferable, as they excite no irritation from pressure and by ale ing them in considerable quantities we may obtain as copious a discharge as may be necessary). The naused so frequently an attendant upon this fever and so distriping to the spatients with to more speedily and effectually relieved, in this way than by the whole tribe of antismities. Indeed, many of these orticles are decidedly prejudicial operating as they necessarily must, as direct irritants upon a surface already phlogolid. These measures having been premiered and the stomach relevis of its inflammatory dis position, an initie may be exhibited under certain restrictions. For this purpose Sucacuanha should be preferred, of which fifteen or twenty growing may be given . When this remedy has been used under favorable circumstances in may often percein an

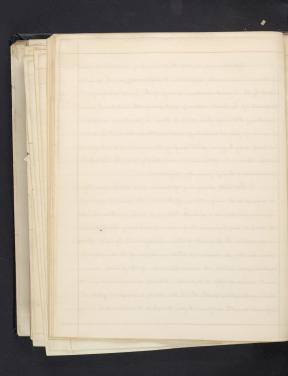


abotement of the most distriforing symptoms - the craused will be allewaited think diminished and the fatients general condition wastly more comfortable. As a general rule horsever it will not be necesany to employ this remedy, indeed in a majority of eases it will be safer not to do so. Mercurial purgey should next oucceed-balomel in fretty large dores, as fifteen or twenty grains, aided in their operation by Carter oil or the neutral satts in as generally preferred. Beside, removing from the interti nal canal its ficulant contents, this seems to exert a consider able influence upon the liver and other secretions organs which at this puriod of the disease are torfied. It is at this period of the disease when the skin is still hot and dry, with this and rittlesuly, that sponging with cold water, or with vin egar and water, may be instituted with immense advantage. It rarely fails to diminish the parched constriction of the skin, tranquillize the system and dispose to slap. It down from this salutary measure its full effect it should be often repeated; and to it, injections of cold water with be found a most value able adjuvant.



lefts the employment of these measures or nor unfrequent by observe a considerable disposition to disphoreery, which may be added by the newtood mixture or any of the mild fibrifuge proparating by drieds continuely and among the intertainal accumulations that may from time to kinne be produced and prove the sensor of general emassings and irritation Calonich in smaller dries may be given sorth any of the newtral satts streetach activity advantagement of the newtral sates three last activity along which are propertied.

But litt discupancy of opinion exists in this country, in organd to the emportaines of blistics. No main, it appears to me, can fractive in a chimate like ours and question the ethlig of their employment. Equally effications are they in removing that condition of the capillarry dystem upon which the maunitinance of the febrile more ment seems chiefly to depend. About simultaneous with their application drick this latter wises, a uniform glow is differed over the surface, before fauched & constructed, always

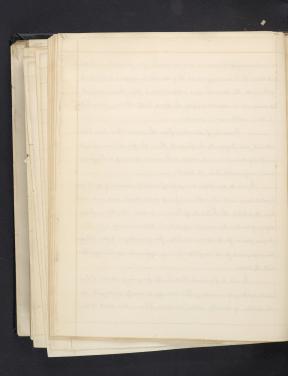


a harbings of good import and emerical of a furreach and sperzy colution. To be more effectual they should be appeired to the back of the mark, the stormach and extremities. When the excitiment is uniquely in should employ the text bath, blisters, stimulating frottins with examined cripics.

A variety of deviations from the cruss that has been detailed with frequently be observed. These the freactitioner should confully examine, and adopt such means of relief as his field must may enable him to select.

It onto be armetimes be meetforey, and particularly so in for packed cases and where the remissions as distinct and well manted to exhibit the Sulphat of Quinine or some other train . Forme degree of caution bowever is requisite in determinising upon the proper perior for its administration, for if employed before this yes time is prepared for its acception it may aggressiate include of allercite the case.

I will be furesized that in the foregoing sketch abhain said northing of owneway. This remady is narrely employed in the section of country whose diseases I have altempted to the



scriby, nor should I be disposed in recent cases, to antecipate a quat deal from its employment

Dring it progress of the disease the dist should be of the middlesh character, as nice water, brash evater or barley water, as acticles of drink as may recommend bisides simple water, bemonade apple water or any slightly acid bown asy.

Thether, in the treatment of southern forces, physicians have relies to seclusively upon purgatives. This cannot be productive of the ser that is propered, as continued purgative wile newspanily provinces an actionaly irritable condition of the intertined and schount the parties without conquering the disease of his been practical form a bleif that active cathered was necessary to carry off the inordinate secretion of bley when a closer observation would convince us, that the line secretion of bley when a closer observation would convince us, that the line secretary of secreting an under quantity of this fleid, is in fact topic and conjusted. The pudicious physician thou, instead of horraspessing his patient with exceepsive catherities, will christable in unulies to the relief of that organ; and by the application of the midd mean counies and and the subsequent exhibition of the midd mean counies and and the subsequent exhibition of the midd mean counies and anon to seeme with suggregations.

It watch with eager eyes the operations of Nature and aid or pestrain them as an enlightened discremenation may direct, constitutes the excellence as it unquestionably does the success of the physician. Hence he who studies her most attentively and seans her ways with the quatest precision and accuracy, will never fail to prove the most useful and fortunate practe tion of I has been , and perhaps out is , the highest opprobrium of our science, that these engaged in the proncution of it, have been too at tention to the names of diseases. It is to the succepful cultivation of mo dern pathology, that we are indebted for the light that will ultimately disput the about that have obstructed our advancement. It is cheering no lip to the philanthropic, than to the scientific mind to observe the ac. tonishing success with which rational medicine has been pursued during the fresent century. Such indeed has been the rapidity of its advancement, as justly to constitute this perior an era in its history, alluch remains get to be accomplished - and from the real and talent engaged in the furtiint, we may anticipate the most sheering and favorable result, results that will sender it, what it should always have been, a Science of reason and induction

